Vinalhaven

Vulnerability Assessment and Climate Adaptation
Vinalhaven, Maine

- Year-Round Population: 1,200
- Seasonal Population: 5,000+
- Economy: Lobster Fishery, Tourism, Service
- Full-service Main Street with over 30 businesses
Local Interest

Assessment

Concepts

Implementation
Local Interest

- BOS Goal
- Formed Committee
- Community Discussions
Assessment:
Ransom Engineering Study

100-year Storm Surge and Waves
Storm = Nov 1978 and FEMA Base Flood Elevation
Nuisance = Highest Annual Tide (HAT) and Nov 2016 King Tide
Normal High = Mean Higher High Water
Concepts: Design & Resiliency Team (DART)

- Wayne Feiden, FAICP, Director of Planning & Sustainability, Northampton, MA
- Cori Burbach, Assistant City Manager, City of Dubuque, Iowa
- Michael Davis, FAIA LEED AP, Bergmeyer Associates; Boston Civic Design Commission
- Peter Flinker, ASLA AICP, Principal, Flinker and Dodson
- David Kriebel, PhD, PE, Professor of Coastal and Ocean Engineering, US Naval Academy
- Joel Mills, Senior Director, Communities by Design, AIA
- Erin Simmons, Senior Director, Design Assistance, AIA
- Binh Minh Hoang (Vietnam) & Idfi Septiani (Indonesia), YSEALI
NEW SIDEWALK ELEVATION MEETS ACCESSIBILITY REQUIREMENTS
RAISED ABOVE 100-YR FLOOD

NEW ROAD ELEVATION H=9.0 FEET (NAND)

BANDED CONC. WALKWAY

EXISTING PARKING LOT
Implementation: Armor, Adapt, or Abandon

• Near term (to 2050):
  • Elevate road and sidewalks
    • Prevent nuisance flooding with 1 ft SLR scenario
    • Need to evaluate stormwater and sewer
  • Encourage prudent wet or dry floodproofing measures

• Long term (to 2100):
  • Consider long term plan to raise wharf elevations
  • Consider modifying sluice structure
  • Consider long term plan to raise buildings
    • First floor above future FEMA base flood elevation

• Take advantage of life cycle replacement and upgrades
Questions?

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